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Research Interests

My research interests include pancreatitis (premature activation of trypsin), mucin secretion, intracellular Ca^{2+} signaling, and cell-based biosensors and have focused on Ca^{2+} signaling, especially at the subcellular level, such as in the secretory granules and the endoplasmic reticulum. I have worked on various aspects of Ca^{2+} signaling on airway goblet cells, ciliated cells, brain epidermal cells, and mast cells. Recently, I became very interested in the initiating mechanisms of acute pancreatitis. I think intracellular Ca^{2+} plays a critical part in initiating the premature activation of trypsin, which could lead to acute pancreatitis.

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